



FIG. 1

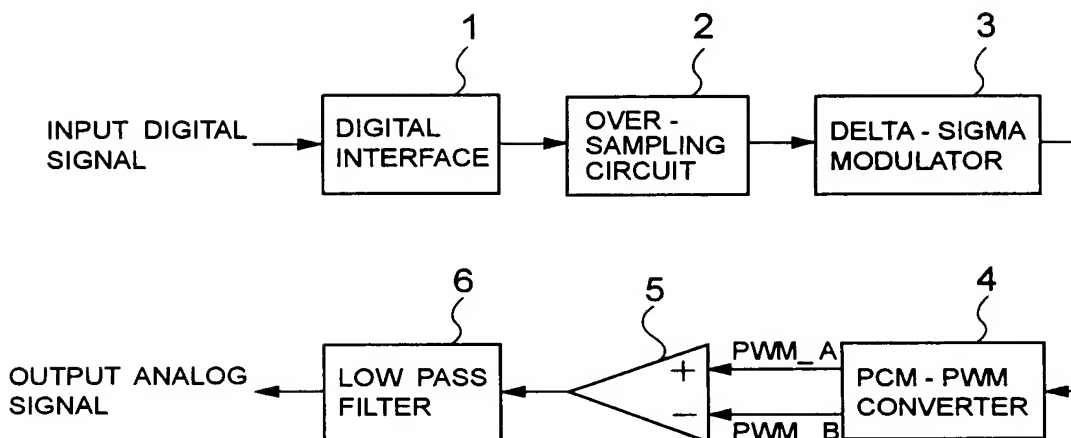


FIG. 2

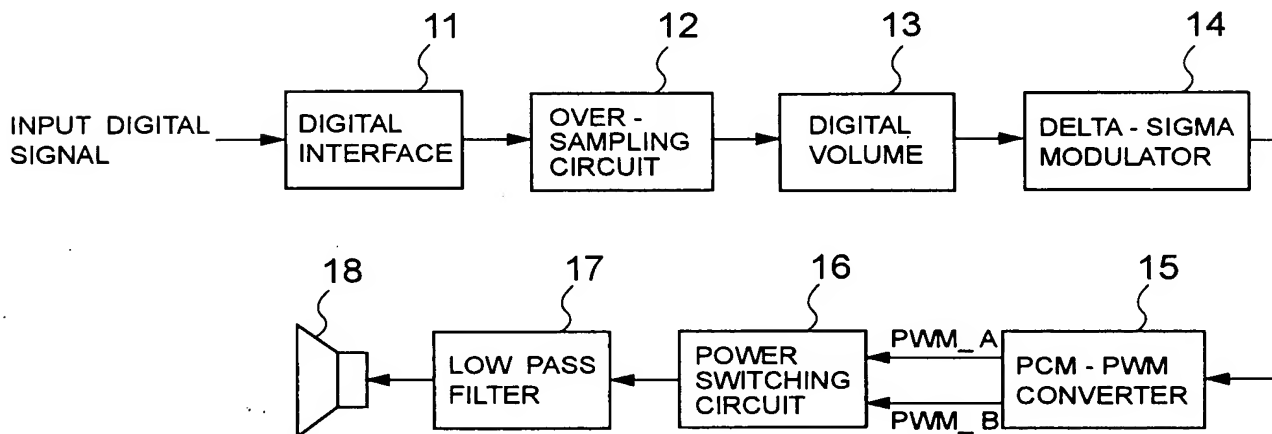


FIG. 3

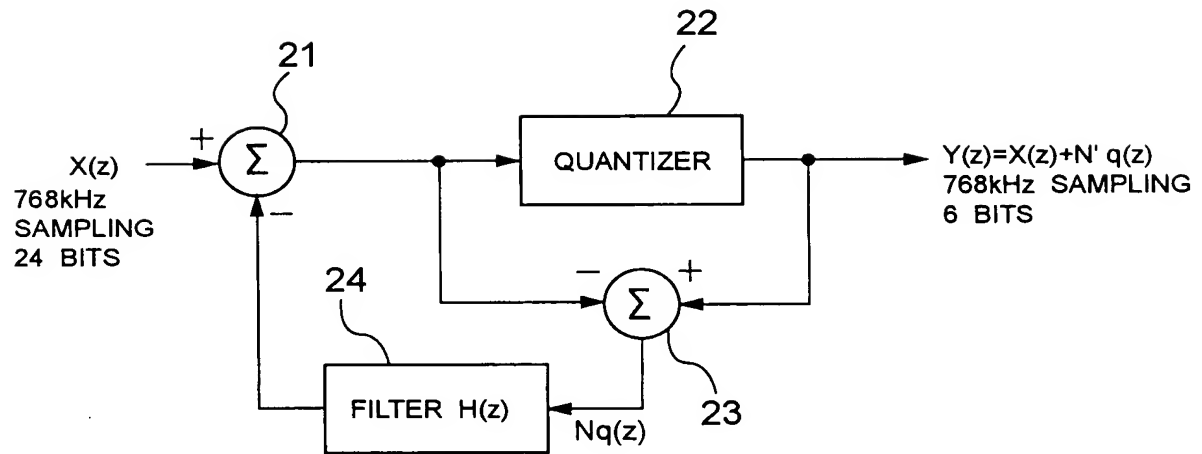


FIG. 4A

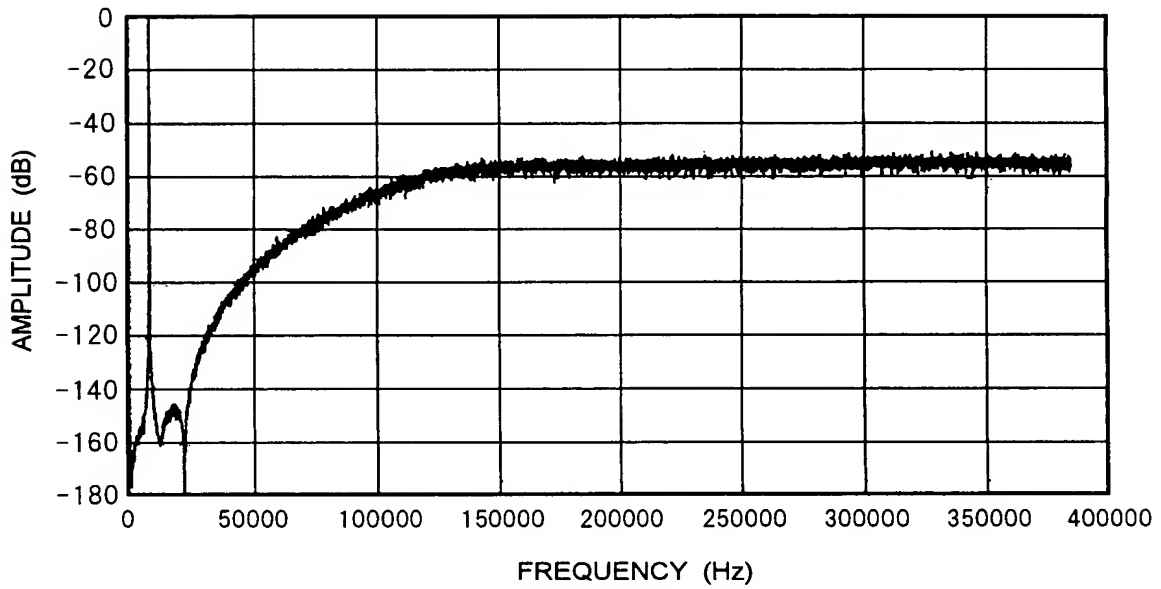


FIG. 4B

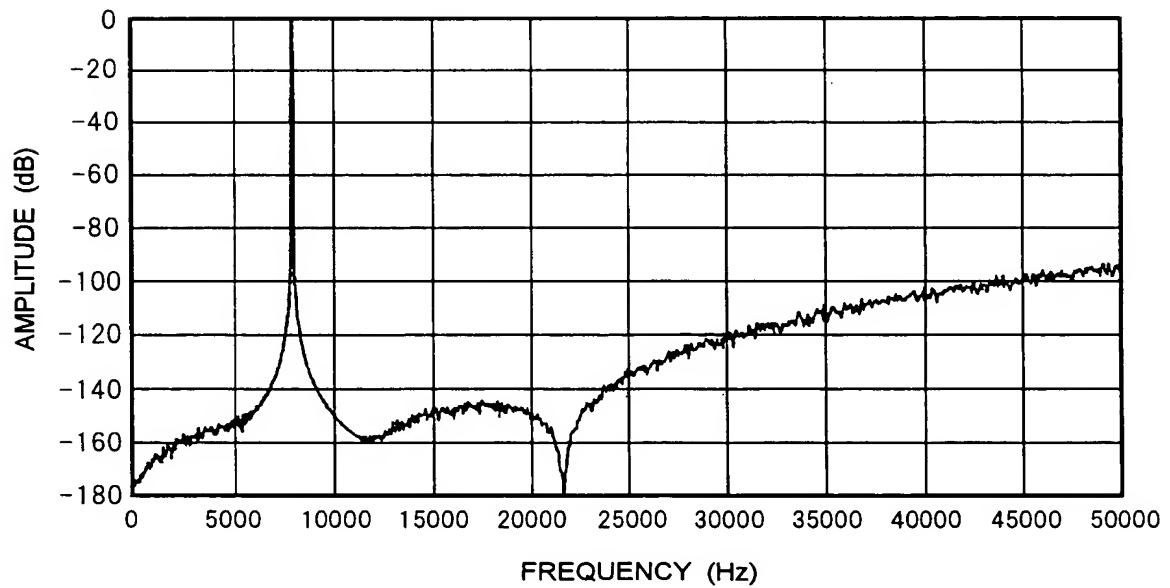
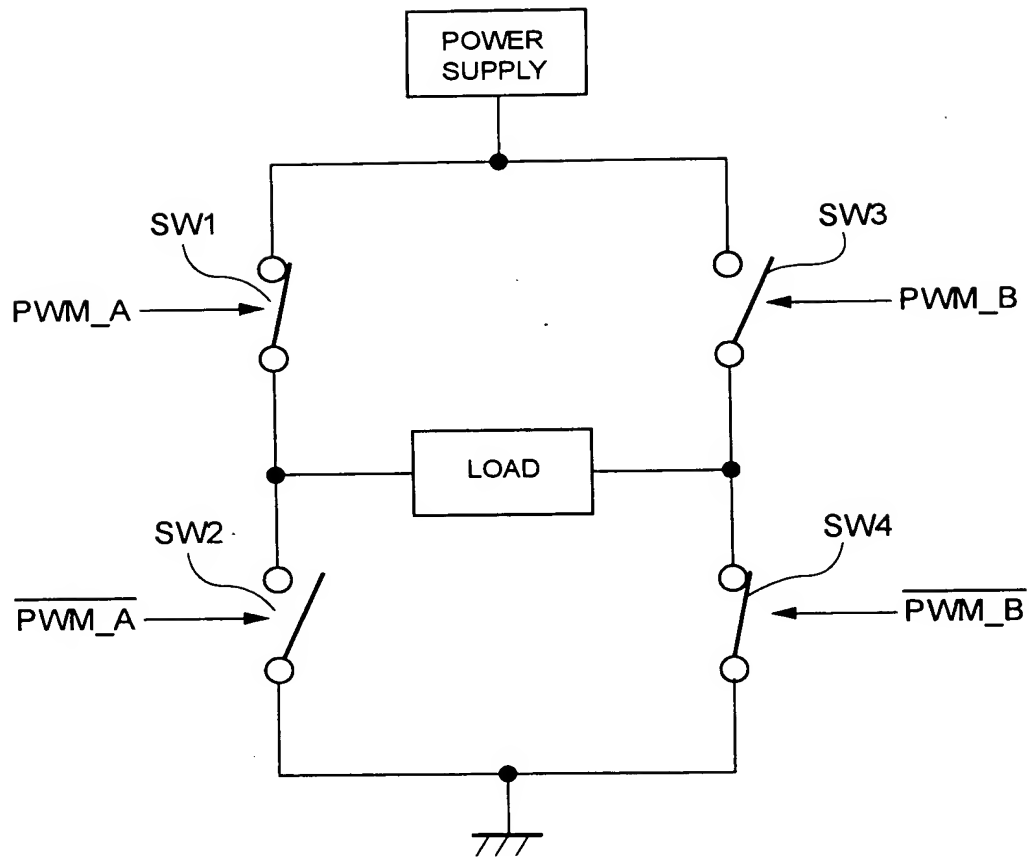


FIG. 5



| SLOT | | | | | SLOT | | | | |
|-------------------------|---|---|---|---|---------------------------|---|---|---|---|
| 0 | 2 | 4 | 6 | 8 | 0 | 2 | 4 | 6 | 8 |
| PCM SIGNAL VALUE = 3 | | | | | PCM SIGNAL VALUE = - 3 | | | | |
| PWM_A | | | | | PWM_A | | | | |
| PWM_B | | | | | PWM_B | | | | |
| PWM_A - PWN_B | | | | | PWM_A - PWN_B | | | | |
| PCM SIGNAL VALUE = 2 | | | | | PCM SIGNAL VALUE = - 2 | | | | |
| PWM_A | | | | | PWM_A | | | | |
| PWM_B | | | | | PWM_B | | | | |
| PWM_A - PWN_B | | | | | PWM_A - PWN_B | | | | |
| PCM SIGNAL VALUE = 1 | | | | | PCM SIGNAL VALUE = - 1 | | | | |
| PWM_A | | | | | PWM_A | | | | |
| PWM_B | | | | | PWM_B | | | | |
| PWM_A - PWN_B | | | | | PWM_A - PWN_B | | | | |
| PCM SIGNAL VALUE = 0 | | | | | | | | | |
| PWM_A | | | | | | | | | |
| PWM_B | | | | | | | | | |
| PWM_A - PWN_B | | | | | | | | | |

FIG. 7

SPECTRUM OF SINGLE - SIDED BINARY PWM

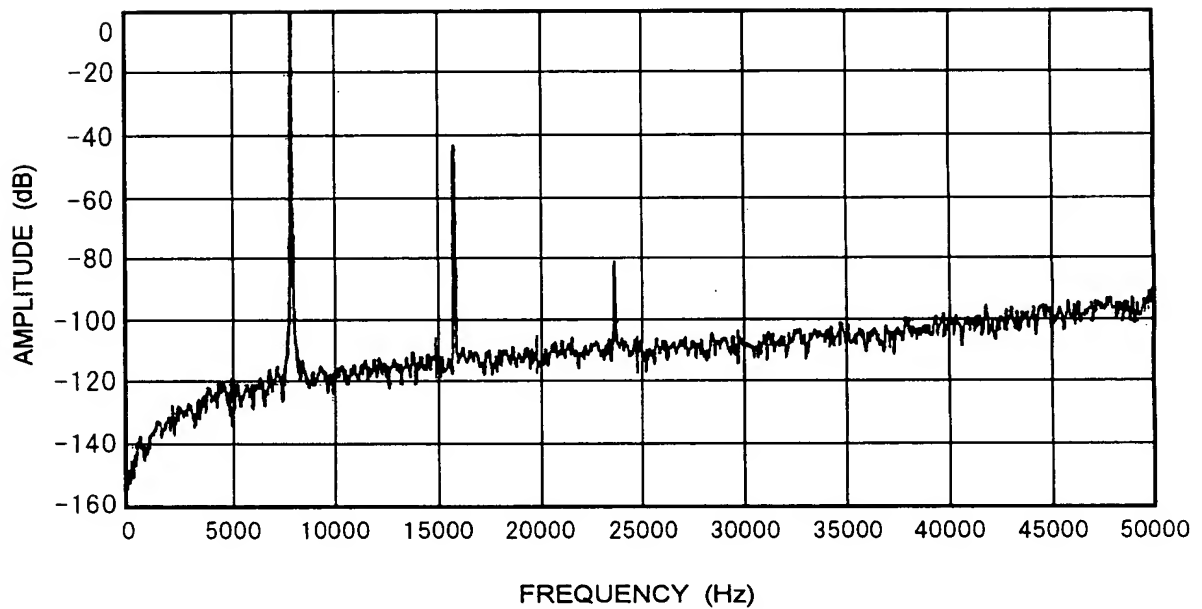


FIG. 8

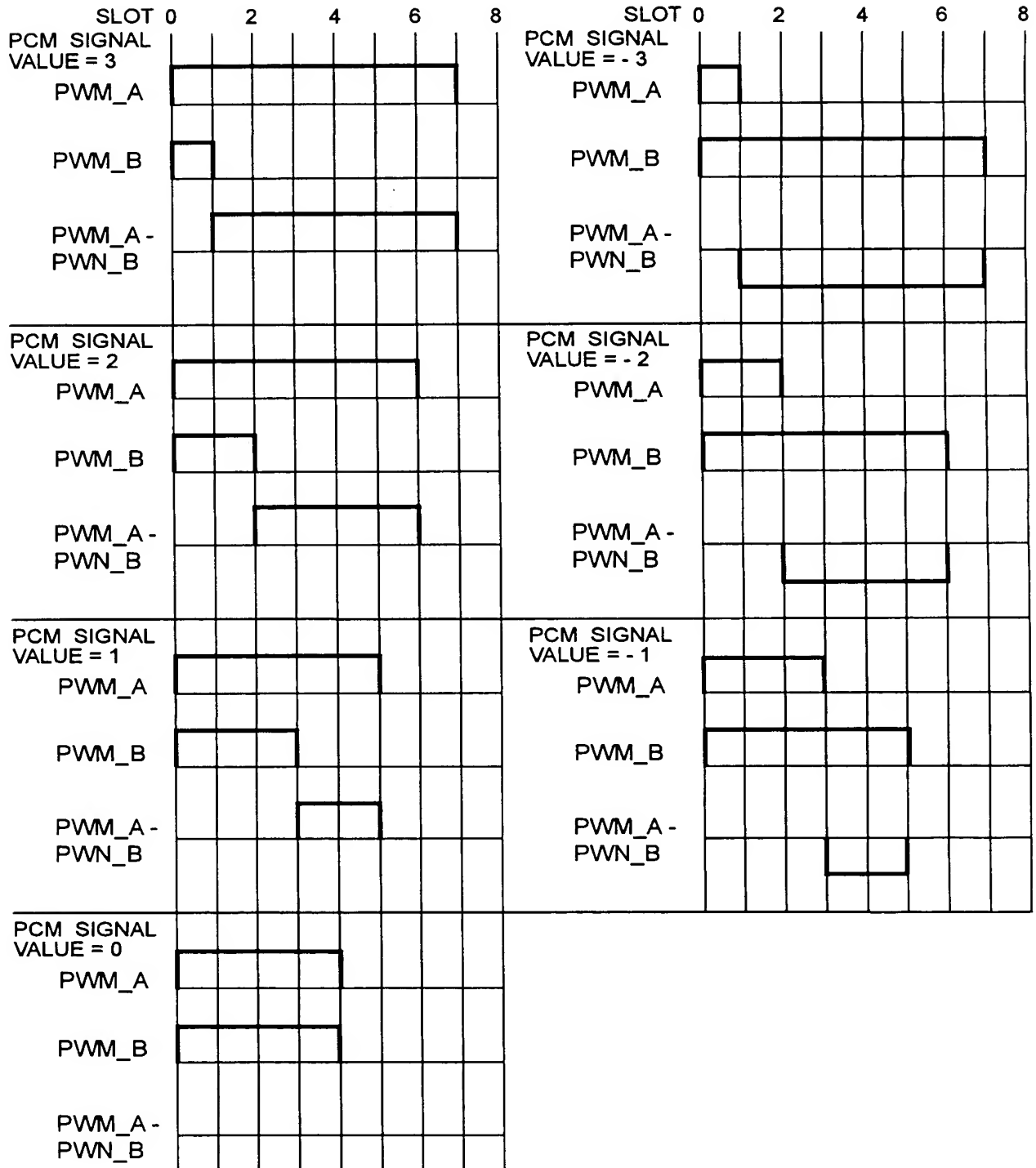


FIG. 9

SPECTRUM OF SINGLE - SIDED THREE - VALUED PWM

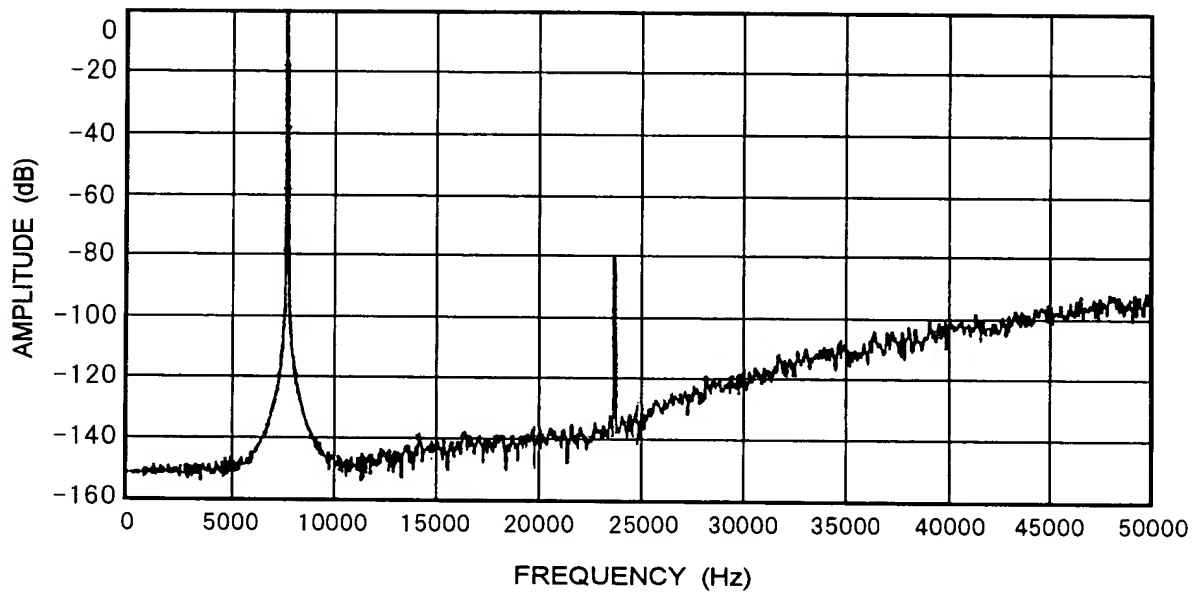


FIG. 10

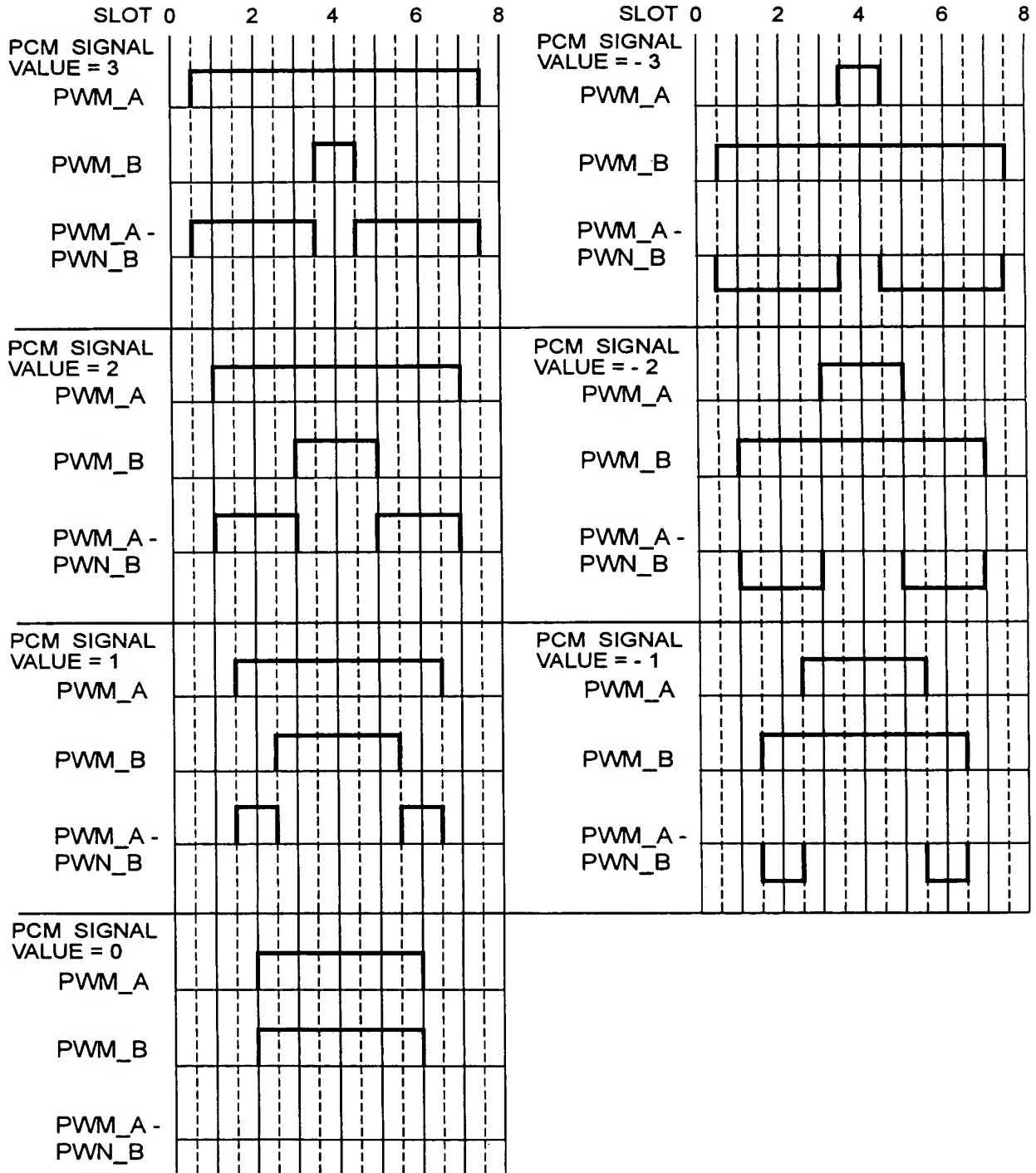


FIG. 11

SPECTRUM OF DOUBLE - SIDED THREE - VALUED PWM

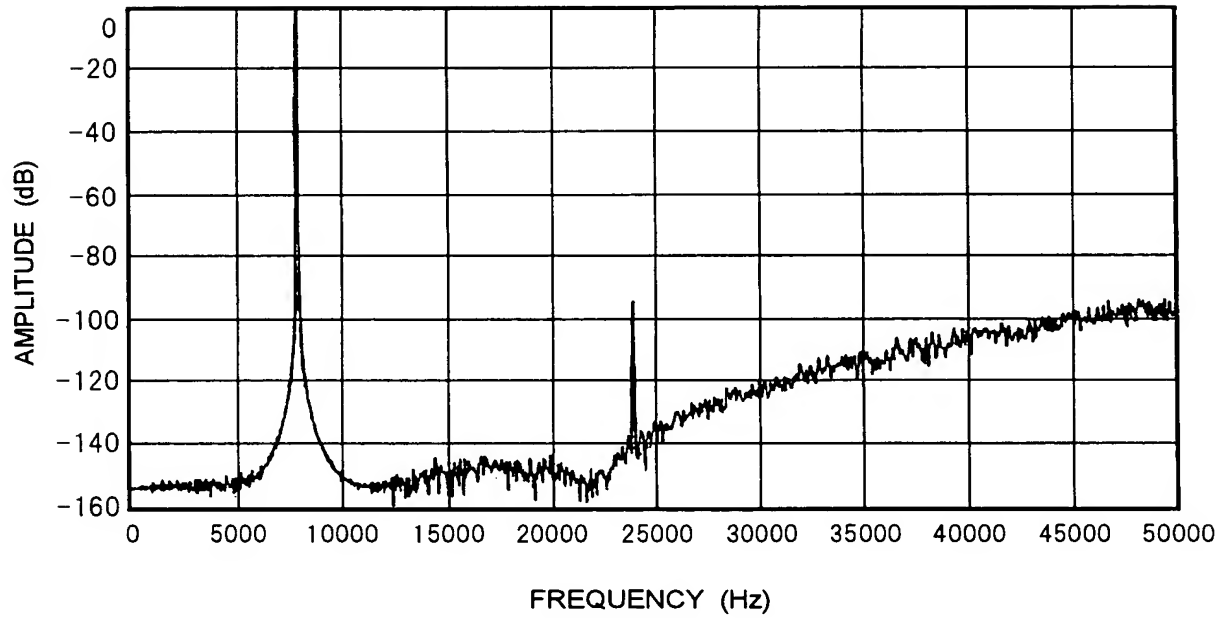


FIG. 12

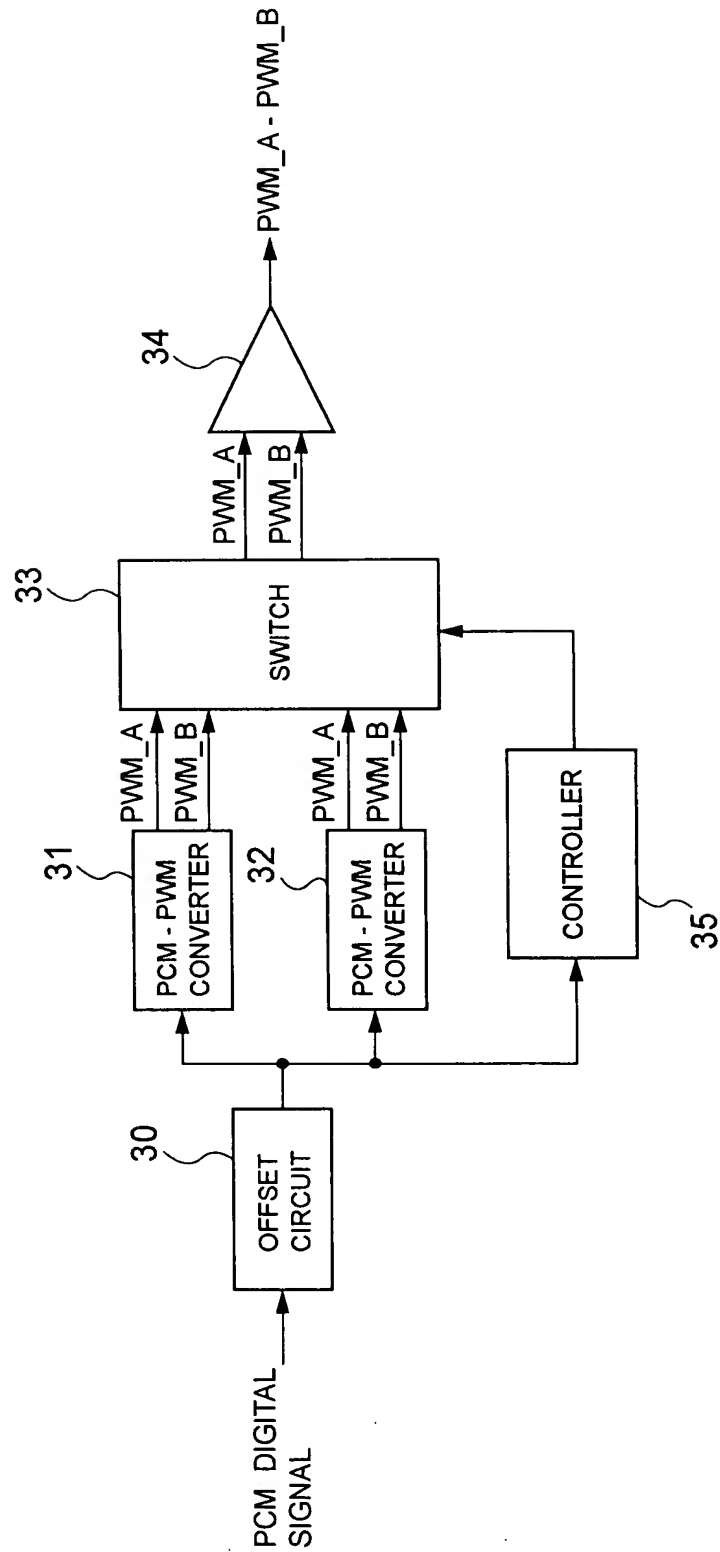


FIG. 13

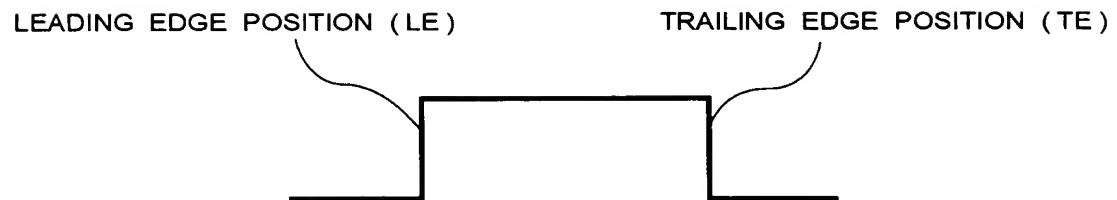


FIG. 14

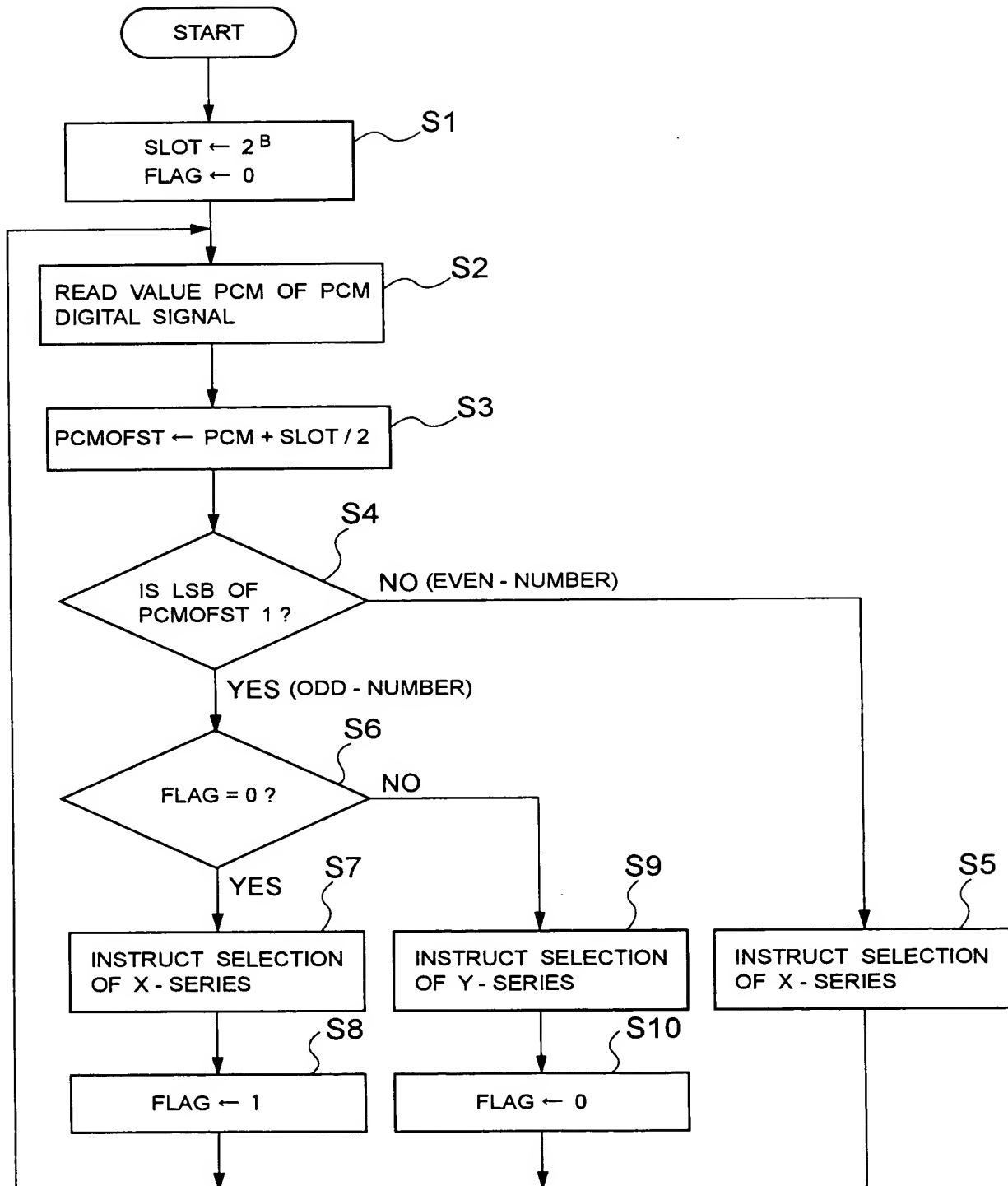


FIG. 15

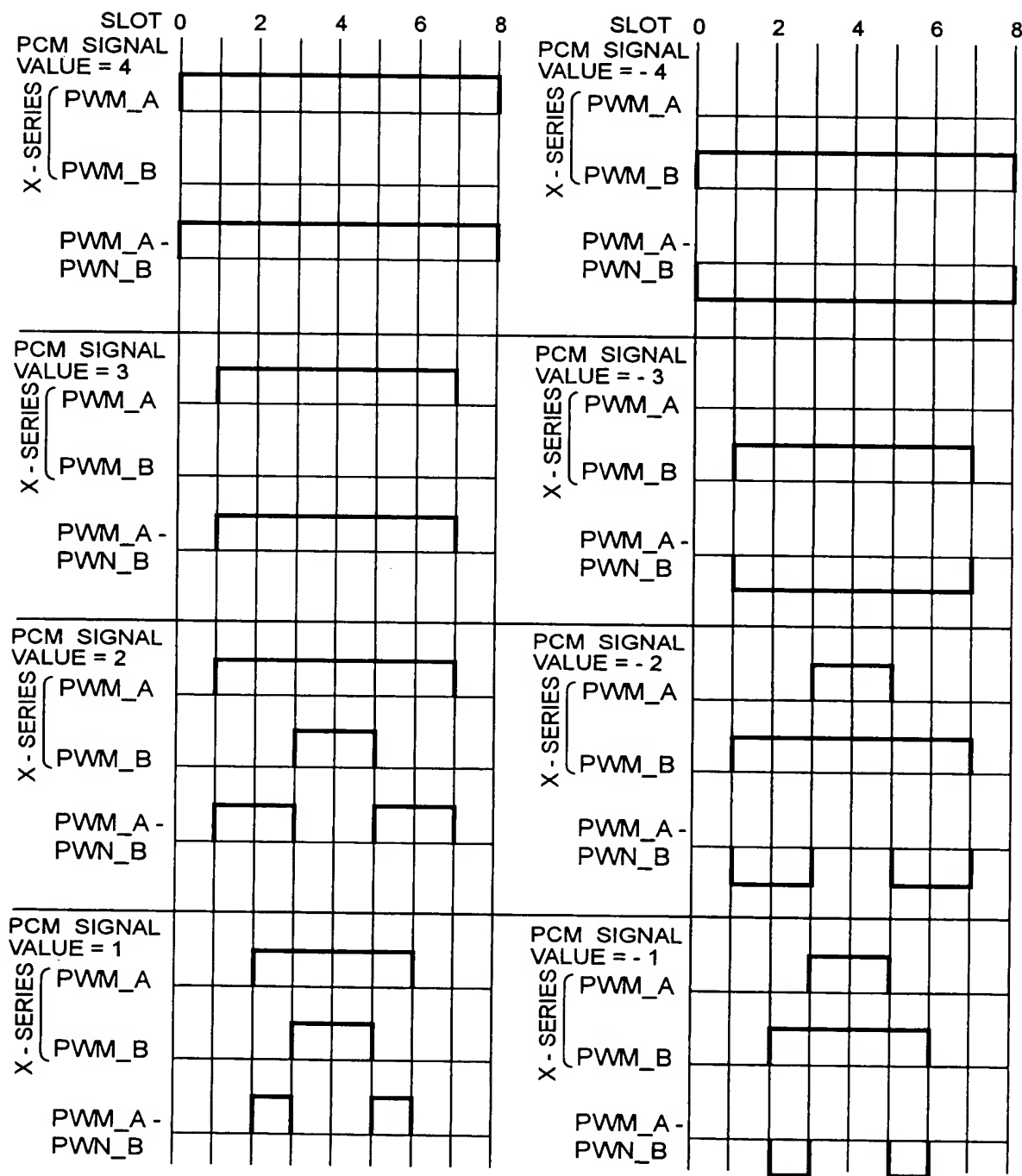
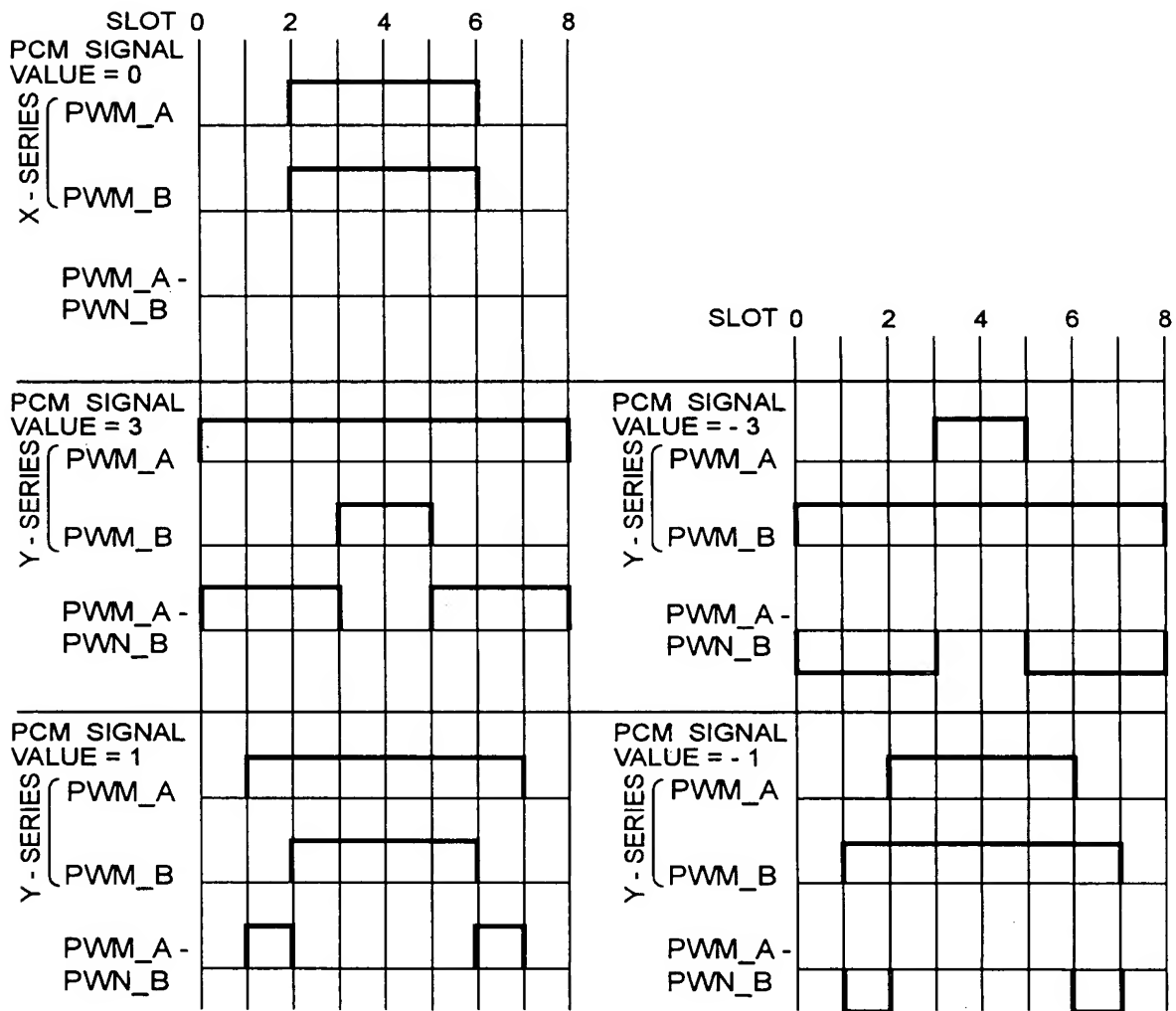


FIG. 16



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FIG. 17

SPECTRUM OF PWM USING ONLY X - SERIES

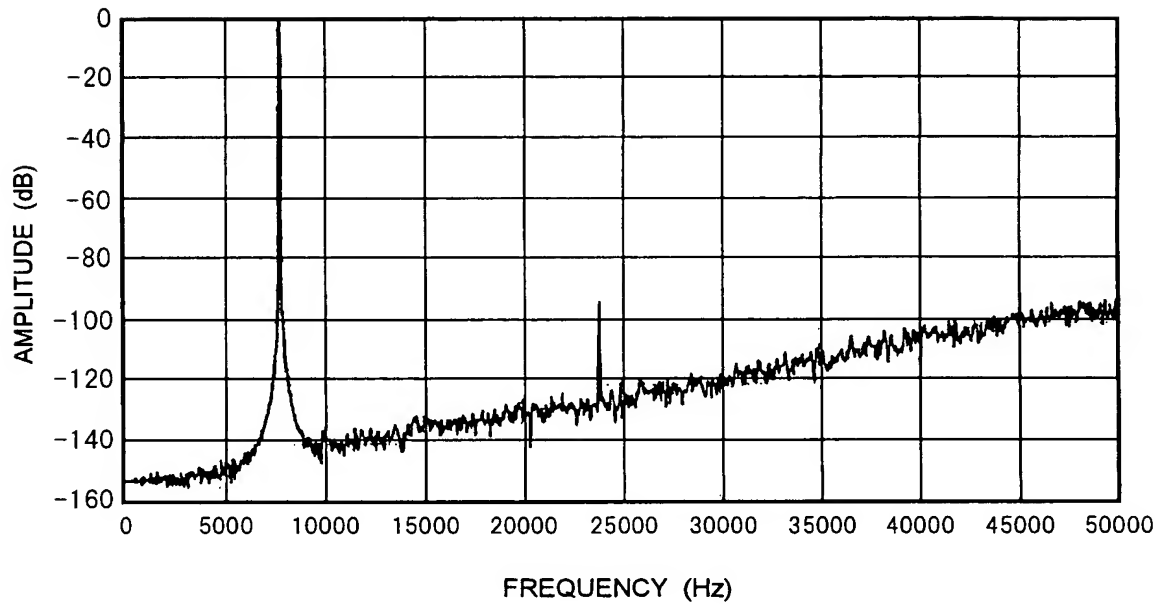


FIG. 18

SPECTRUM OF PWM USING X - SERIES AND Y - SERIES

